

## Utah Weekly Pertussis Update

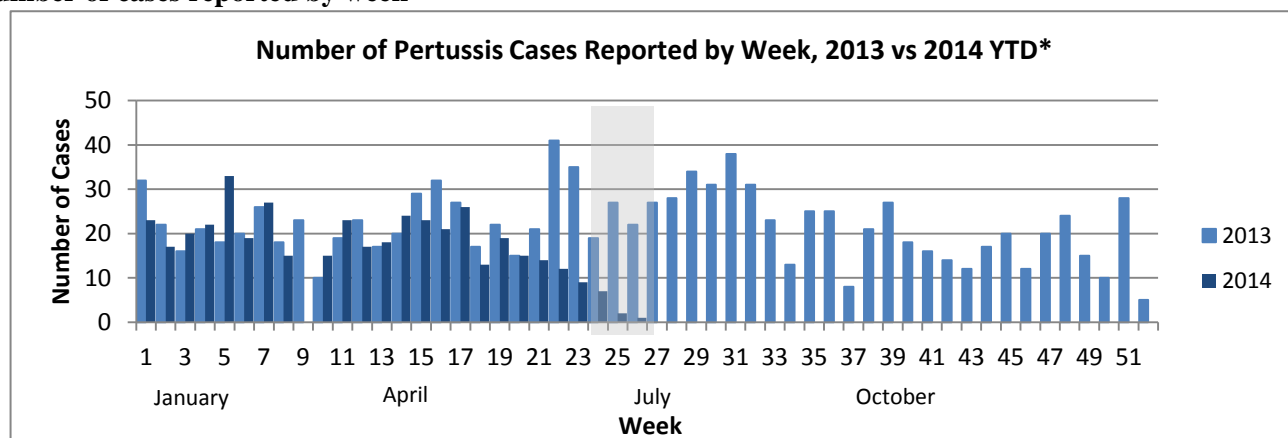
2014 data, through MMWR week ending June 28, 2014 (MMWR Week 26)

*Data presented in this report are based on current data available and will be subject to change weekly.*

### Data Summary

Total number of cases reported, 2014 year-to-date (YTD)	459	Utah Incidence rate, 2014 year-to-date (YTD) per 100,000 person-years	32.2
Total number of cases reported 2013	1,331	Utah Incidence rate, 2013 per 100,000 person-years	47.2
Number of cases reported in past week	26	National Incidence rate, 2013 per 100,000 person-years (As of 1/03/2014) *Provisional	7.3
Total number of cases reported, through same time period 2013	592	2014 Hospitalizations	18
Age groups with the highest rates	<1 year 5-14 years	2014 Cases in infants <1 year	38

### Number of cases reported by week



\*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

### 2014 Year-to-Date Incidence Rates, By Age

Age (years)	2014 Cases	2010 population	Rate*
<1	38	51,883	146.9
1-4	42	213,904	39.4
5-14	180	494,285	73.0
15-24	86	463,992	37.2
25-34	20	452,752	8.9
35-44	36	348,250	20.7
45-54	34	310,389	22.0
55-64	14	257,365	10.9
65+	9	262,660	6.9
Total	459	2,855,480	32.2

\* Rate is calculated per 100,000 person years

Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

### School Age Incidence Rates, 2014 Year-to-Date

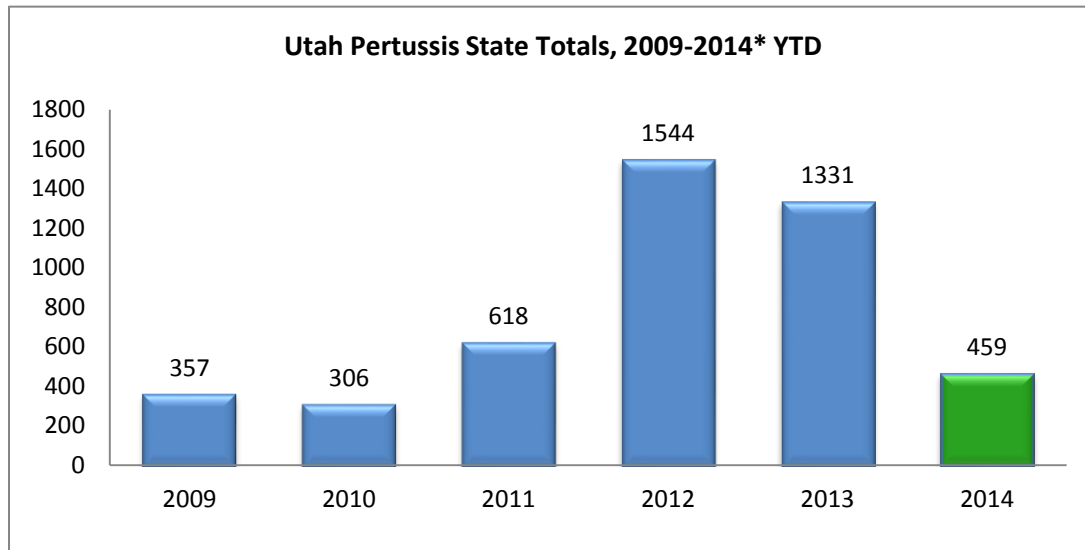
Grade	Age (years)	2014 Cases	2010 Population	Rate*
Preschool	3-4	158	107,474	294.8
Kindergarten	5	6	52,626	22.9
1	6	9	52,405	34.4
2	7	13	51,490	50.6
3	8	10	51,263	39.1
4	9	28	49,029	114.5
5	10	22	49,235	89.6
6	11	23	49,264	93.6
7	12	18	47,284	76.3
8	13	19	46,176	82.5
9	14	32	45,513	141.0
10	15	30	44,006	136.7
11	16	21	44,507	94.6
12	17	12	43,772	55.0

\* Rate is calculated per 100,000 person-years

School age incidence rates were calculated using the average age of a student in each grade.

The high incidence rates in 5th and 6th grade may be due to waning immunity.

### Utah Case Counts of Pertussis, 2008-2013



Pertussis tends to be cyclical, and reports have been increasing in Utah since 2009.

\* 2014 data includes pertussis cases reported year to date. 2009-2013 data reflects cases reported during the entire calendar year for each year.

## Incidence of pertussis by Local Health Department, 2014 YTD

Local Health Department	2014 Cases	Rate*
Bear River	19	22.7
Central Utah	20	52.9
Davis County	72	45.7
Salt Lake Valley	139	26.2
Southeastern Utah	0	0.0
Southwest Utah	3	2.9
Summit County	4	21.1
Tooele County	1	3.4
TriCounty	2	7.3
Utah County	96	35.6
Wasatch County	0	0.0
Weber-Morgan	89	72.4

\* Rate is calculated per 100,000 person-years using 2010 Utah population estimates

